

1 [See pp. 371ff., category 241 or 116, --
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THE SHIFTING CULTIVATOR

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Shifting cultivation, the most primitive type of agriculture, may be briefly defined as an economy of which the main characteristics are rotation of fields rather than of crops; clearing by means of fire; absence of draft animals and of manuring; use of human labor only; employment of the dibble stick or hoe; short periods of soil occupancy alternating with long fallow periods. Other terms for shifting cultivation are field-forest economy and field-forest rotation.

Shifting cultivators prefer flat land, but in Formosa, the Philippines, Indochina, and Thailand they have been forced back into the hills and mountains and must often be content with fields on steep slopes (Figs. 16, 17). This has led some observers to believe that shifting cultivation is exclusively practiced in hilly or mountainous regions, or that such regions are preferred in this economy. However, in the Outer Islands³ of the Netherlands Indies, one frequently finds ladangs in flat country (Fig. 18). If the ladang is very steep it is rarely used for more than one crop, so that new clearings must be made every year.

Many shifting cultivators no longer change their dwellings when they turn to new land; they have become sedentary at least as far as their houses are concerned. They may build a hut in the ladang if it is too far away from their village and may occasionally live in such a shelter, especially at the time when the ripening crop has to be guarded against animals, but they will return with the harvest to their permanent houses in the village (Figs. 10, 19-21).

Ladang culture, as is frequently true of any form of agriculture, is intricately interwoven with religion. Magic practices and sacrificial offerings must accompany every step in the culture, even if the people are no longer pagans but, for example, Mohammedans. Friedericy has made a careful study of these magical-religious customs in the Ponre mountains at the head of the Gulf of Bone in southern Celebes.⁴ In this region the people live in small permanent villages. Whenever they are in need of new ladangs—every second year—the heads of the families meet to choose new locations. At this stage they try to find out from the spirits if these agree to the clearing of the land that was selected. For this purpose the village headman (*dukun*), or somebody else who is familiar with magic, is sent out to the part of the forest that has been chosen. Here the delegate places betel leaves (*Piper betle* L.), each with a small slab of lime and a piece of areca nut (*Areca catechu* L.), under a tree and expresses the desire of his community to cut the trees and to use the soil. He ends with the wish that the betel leaves and the areca nuts be scattered should the choice

³ I have used the term "Outer Islands" to denote all the islands of the Netherlands Indies not comprised in the jurisdiction of Java and Madura (Madoera). The Dutch administrative term is *Buitengewesten*.

⁴ Friedericy: "Ponre," 1932, pp. 1-34; idem: "De taak van het bestuur," 1937, pp. 488-501. For an excellent description of the magical-religious rites that are associated with the agricultural efforts of the Bemba of Northern Rhodesia, see Richards: Land, Labour and Diet in Northern Rhodesia, 1939, pp. 351-380.

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of the new ladang be a poor one. After three days the same person returns, and if he finds that the offerings have been scattered a new location is chosen and a new attempt is made to get a favorable answer from the spirits. In case the betel leaves have been found undisturbed, all male members of the village have a meal on the chosen land. Then the area is divided among the villagers by the headman. Each individual appeals to the spirits by placing a betel leaf with lime and areca nut on the ladang that has been turned over to him. If the answer is unfavorable he tries again. The betel leaf may be placed three times. If the offering is disturbed each time, the headman turns over a part of his share, which is considerably larger than any of the others, to the less fortunate villager. Throughout the following agricultural year with its stages of clearing, planting, and harvesting, the peasant repeatedly requires the services of the dukun, or *shaman*, as well as the betel leaf.

In other regions details differ, but the essential fact remains that the social-religious life and thinking of the shifting cultivator is bound up with his characteristic form of cultivation.

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Shifting cultivators have no concept of private land ownership. The land belongs to the community, the tribe, or the village, and each member has the right to use as much land as he needs and can cultivate. The location of the land that he is to use may be decided upon by the village council or the headman. The person who clears the land and plants the crop gets the produce. Nobody has the right to plant a plot that has been cleared by someone else. As soon as the land is abandoned all rights are forfeited, except the right of the community. However, if trees have been planted, the ownership of the trees and their produce remains with the person who planted them, and he is given preference when the land has had a sufficient fallow period and can again be cultivated.

THE EFFECT OF SHIFTING CULTIVATION ON THE LAND

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As has been stated above, ladangs decline in fertility after the first crop, and obnoxious grasses and weeds appear among the stooling tree stumps. As long as there is an abundance of forest land at his disposal the cultivator prefers to abandon the ladang. Under favorable conditions the grasses will, in turn, give way to second-growth forest. In the course of centuries this second-growth forest may develop into a climax forest, that is, a forest having the same composition as the primeval forest. In any case, when tall forest growth again occurs, the land will have had time to recover its original fertility.

Unfortunately, however, conditions are often not sufficiently favorable for a regeneration of soil fertility and the development of a good second-growth forest. As a matter of fact, the practice of shifting cultivation has altered the character of vegetation beyond recognition over wide areas in Southeastern Asia. Instead of a dense primeval rain-forest, we now find

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[For information concerning mythical beings, and the role of dream interpretation in relation to "a description of the Chinese lottery known as Hua-Hoey", see category 116, the entire source.]